

Title (en)
SYSTEM AND METHOD FOR POWER FACTOR CORRECTION FREQUENCY TRACKING AND REFERENCE GENERATION

Title (de)
SYSTEM UND VERFAHREN ZUR LEISTUNGSFAKTORKORREKTUR-FREQUENZVERFOLGUNG UND -REFERENZERZEUGUNG

Title (fr)
SYSTÈME ET PROCÉDÉ DE SUIVI DE LA FRÉQUENCE DE CORRECTION DU FACTEUR DE PUISSANCE ET GÉNÉRATION DE RÉFÉRENCE

Publication
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Application
EP 10808622 A 20100810

Priority

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Abstract (en)
[origin: US2011031940A1] A power factor correction (PFC) system includes a period determination module, a frequency generation module, an angle generation module, a signal generation module, and an angle correction module. The period determination module determines a period of an input alternating current (AC) line signal based on a time between rising edges of the input AC line signal. The frequency generation module generates a frequency based on the period. The angle generation module generates an angle based on the frequency. The signal generation module generates a sinusoidal reference signal based on the frequency and an adjusted angle. The angle correction module generates the adjusted angle based on the angle and based on a comparison of a falling edge of the sinusoidal reference signal, the period, and a rising edge of the input AC line signal.

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